

JOB NO. 4580 DIXIE CARRIERS
BARGE: DXE-1110 3/95

HER 05443



DESCRIPTION OF WORK PERFORMED (BY FOREMAN)

JOB NO. 4580 -
DATE 3-6-95
CLASS NO. DXE-1110 -

[illegible][illegible]

INFO

^ DCML

CODED
AND
EXTENDED

APPROVED
BY

HER 05444

HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 2858-95
DATE : Mar 23, 1995
Job No. : 4580-1
Location : Freeport Yard

TO: Dixie Carriers, Inc.
2102 Broadway
Houston, Texas 77012

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Services to the barge DXE-1110 as follows:

Set up equipment
Strip out all free product
Blow cargo pipeline and stripping system
Vacuum blow dry cargo tanks
Sweep powder, rust from cargo tank floors
Wash and strip deck around engine and headers
Pressure test cargo pipeline to 40# psi
Clean off deck
Remove equipment
Close barge

Labor: Foreman 7 @ 51.75
Leadman 7 @ 48.00
Journey 21 @ 44.25

Material: 37.50 + 7.50

Equip:

Compressor 8 @ 44.00
Air Movers 24 @ 5.00
Forklift 1 @ 20.00
Vacuum 2 @ 18.00
Hand Hose 2 @ 10.00

\$ 362.25
336.00
929.25
45.00

352.00
120.00
20.00
36.00
20.00

TOTAL AMOUNT DUE:

\$2,220.50

Arrived: 3/6 4:30 pm
Completed: 3/6 11:30 pm
Product: Methanol

PHONE: (409) 233-6371

HER 05445

Strength through Experience, Equipment, Know-How

Barge: DXE-1110

OIT meals

Date MAR 6 1995

M. KITTY'S PUPPIE COOK

No. *Chuckles*

Reg. No.	Clerk	ACCOUNT FORWARD
1	<i>5-17</i>	<i>07.50</i>
2		<i>4.80</i>
3		<i>2.50</i>
4	<i>6 Coke</i>	<i>34.80</i>
5		
6	<i>10 Jap</i>	<i>27.0</i>
7		
8		<i>37.50</i>
9		
10	<i>Left</i>	
11	<i>23</i>	
12		
13		
14		
15	<i>Bot # 4580</i>	

Our Account Stated to Date — If Error Is Found Report to Clerk

HER 05446

EQUIPMENT	HOURS USED	HOURLY RATE	TOTAL PRICE
2- COMPRESSOR	4 HRS EA 8 HRS	44.00	
4- AIR MOVERS	" " 24 HRS	5.00	
VACUUM	2 HRS	20.00	
BOILER		80.00	
HAND HOSE	2 HRS	10.00	
BUTTERWORTH		10.00	
2" STRIP PUMP		12.00	
3" DIESEL PUMP		14.00	
4" ELECT PUMP		15.00	
CRANE		130.00	
CHERRY PICKER		50.00	
FORKLIFT	1 HR	20.00	
TUG BOAT		80.00	
WELD MACHINE		15.00	
CUTTING RIG		8.00	
WORK BARGE		35.00	
HAUL OUT		1100.00	

DATE: 3-6-95 JOB NO: 4580 BARGE NAME: DXE-1119

HER 05447

JOB NO: H580

BARGE NAME: DXE-1110

DATE: 3-6-95

WORK SCOPE

SETUP EQUIPMENT ✓

STRIP OUT ALL FREE PRODUCT ✓

HOT WATER WASH AND BLOW PIPELINE AND STRIPPING SYSTEM ✓

HOT WATER WASH CARGO TANKS ✓

COLD WATER WASH PIPE LINE AND STRIPPING SYSTEM ✓

COLD WATER WASH CARGO TANKS ✓

HOT CHEMICAL WASH ✓

BLOW CARGO PIPELINE AND STRIPPING SYSTEM ✓

VACUUM BLOW DRY CARGO TANKS ✓

SWEEP POWDER RUST FROM CARGO TANK FLOORS ✓

WASH AND STRIP DECK AROUND ENGINE AND HEADERS ✓

PRESSURE TEST CARGO PIPELINE TO 400 PSI ✓

CLEAN OFF DECK ✓

REMOVE EQUIPMENT ✓

CLOSE BARGE ✓

STRIP DRIP PANS

HER 05448



Strength through experience, equipment, know-how
P.O. Drawer O Office: (409) 233-6371
Freeport, Texas 77541 Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 3-6-95

BARGE: DXE1110

BLND NUMBER CHECKED 8 REPLACED GASKET YES NO ☒

GATE VALVE NUMBER CHECKED 8 REPLACED GASKET YES NO ☒

PLUGS NUMBER CHECKED 8 REPLACED PLUG YES NO ☒

* CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES NO

DEEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES NO

BELOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES NO

BELOW DECK CARGO PIPELINE BLIND REMOVED YES NO ☒

DRIP PANS VALVES: CLOSED BY de la Rosa

DRIP PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY N/A

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Claudio Quinto

WITNESS: J. Rivera

* CHECK VALVE GASKET WILL BE REPLACED

* AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

HER 05449

JOB WORKSCOPE/BREAKDOWN

JOB NO: 4580 CUSTOMER: Dixie Carriers BARGE: DXE-1110

FOREMAN:	S/T	@36.00	\$	
	O/T	<u>7</u>	@51.75	<u>362.25</u>
LEADMAN:	S/T	@33.50		
	O/T	<u>7</u>	@48.00	<u>336.00</u>
JOURNEY:	S/T	@31.00		
	O/T	<u>21</u>	@44.25	<u>929.25</u>

2858.95

DISPOSAL: _____ GAL @ .35 _____

MATERIAL: 37.50 PLUS 20% 7.50 45.00

STOCK MATERIAL: _____ PLUS 20% _____

EQUIP:

COMPRESSOR	<u>8</u>	@ 44.00	<u>352.00</u>
AIR MOVERS	<u>24</u>	@ 5.00	<u>120.00</u>
FORKLIFT	<u>1</u>	@ 20.00	<u>20.00</u>
TUGBOAT		@ 80.00	
STEAM RIG		@ 80.00	
VACUUM	<u>2</u>	@ 18.00	<u>36.00</u>
HAND HOSE	<u>2</u>	@ 10.00	<u>20.00</u>
WELDING MACHINE		@ 15.00	
CHERRY PICKER		@ 50.00	
CRANE		@ 130.00	
FLATBED TRUCK		@ 20.00	
3" GAS PUMP		@ 14.00	
2" STRIP PUMP		@ 12.00	
BUTTERWORTH		@ 10.00	
4" ELECTRIC PUMP		@ 15.00	
WORK BARGE		@ 35.00	
CUTTING RIG		@ 8.00	
HAUL OUT		@ 1100.00/day	

Clean

ARRIVED: 3/6 COMPLETED: 3/6 DEPARTED: _____
4:30 PM 11:30 PM

PRODUCT: Methanol LOAD: _____

TOTAL INVOICE:

2,220.50

HER 05450

BARGE CLEANING REPORT

JOB NO. 4580
 BARGE NO. DXE-1110
 CUSTOMER DIXIE
 PRODUCT METHANOL

ETA _____
 DATE/TIME ARRIVAL 3-6-95 4:30pm
 DATE/TIME STARTED 3-6-95
 DATE/TIME COMPLETED _____

AMOUNT STRIPPED 300

CLEANING INSTRUCTION : STRIP AND BLOW DRY
 COMPLETION SCHEDULE BY: M. GREEN
 OVERTIME AUTHORIZED BY: M. GREEN
 BARGE INSPECTED BY: Charles Dantz DATE/TIME: _____
 BARGE RELEASED TO: E.D. DATE/TIME: _____
 DEEPWELL OPENED: YES _____ NO ☒ CLOSED BY _____ NEW GASKET YES _____ NO _____
 BELOW DECK CARGO PIPELINE: BLIND OPEN YES _____ NO ☒ CLOSED BY _____ NEW GASKET YES _____ NO _____
 DECK CHECK VALVE OPENED: YES N/A NO _____ CLOSED BY _____ NEW GASKET YES _____ NO _____
 DECK HEADER BLINDS OPEN: YES ☒ NO _____ CLOSED BY Sal NEW GASKET YES _____ NO _____
 DECK HEADER DRAIN PLUG OPEN: YES ☒ NO _____ CLOSED BY Denick
 VAPOR RECOVERY HEADER OPENED: YES ☒ NO _____ CLOSED BY Debra Rosa NEW GASKET YES _____ NO _____
 RUST SCALE: YES _____ NO ☒ WASHED OUT _____ BUCKETED OUT _____
 NUMBER OF CARGO TANKS 4
 CONDITION OF CARGO VALVES Good
 SLOP TANK STRIPPED: YES _____ NO ☒
 DRIP PANS STRIPPED: YES ☒ NO _____
 WEATHER: TEMP 65 RAIN _____ FOG _____ HUMIDITY _____ OVERCAST ☒ CLOUDY _____ CLEAR _____
 PIPELINE WASHED: no PIPELINE BLOWN yes PIPELINE SUMPS INSPECTED Charles Dantz
 BCW RAKE CHECKED: YES ☒ NO _____ STERN RAKE: YES ☒ NO _____
 HOIDS: YES ☒ NO _____ SAFETY EQUIPMENT USED: _____

WORK SCOPE

HER 05451

4580

T I M E S H E E T

DATE: 3-6-95

BARGE NAME: DXE1110

OVERHEAD:

BOAT NAME:

OFFSHORE:

TIME START: 4:30 PM.

TIME STOP: 11:30 PM.

NAME:

HOURS:

OT

DANIEL HERNANDEZ ✓

7

JOE OLIVAREZ ✓

7

TRINO RODRIGUEZ

SAM PETTIT

JIMMY JACKSON

CABRIEL DE LA ROSA ✓

7

RICHARD RODRIGUEZ

DOMINCO CUEL

JUAN RIVERA ✓

7

CLAUDIO DUARTE ✓

7

LARRY B. CLINGER

JOB DESCRIPTION: STRIP. BLOW DRY.

HER 05452

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 3-6-95Supervisor Charles D. DutePlant HERCULESClient Safety Area BAH45 Free DockDXE 1110

The following listed materials are considered to be hazardous to the employees working in this area:

<u>ME THANOL</u>	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure.

I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
<u>Charles D. Dute</u>	<u>336</u>	_____	_____
<u>F. Rivera</u>	<u>272</u>	_____	_____
<u>Joe T. Quinn</u>	<u>40</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

HER 05453

MATERIAL SAFETY DATA SHEET

METHANOL

Tank 730

MSDS No.
HCROO1423

Rev. Date
03/03/89

LYONDELL PETROCHEMICAL COMPANY
1221 MCKINNEY AVENUE, SUITE 1600
P.O. BOX 3646
HOUSTON, TEXAS 77253-3646

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers, and users of this product.

This product is considered a hazardous substance under the OSHA Hazard Communication Rule.

I. General			
Trade Name METHANOL		Telephone Numbers EMERGENCY 800/424-8300 CHEMTREC 800/245-4532 HOT LINE CUSTOMER SERVICE 713/652-7200 INFO ONLY	
Other Names METHYL ALCOHOL; (MEETS ASTM D-1182 SPECIFICATIONS); WOOD ALCOHOL; WOOD NAPHTHA; CARBINOL; COLUMBIAN SPIRITS; MANHATTAN SPIRITS.			
Chemical Family ALIPHATIC ALCOHOL	DOT Hazardous Materials Proper Shipping Name METHYL ALCOHOL		
Generic Name METHANOL	DOT Hazard Class FLAMMABLE LIQUID		
CAS No. 67-56-1	Company ID No. E000142300	UN/NA ID No. UN 1230	
II. DANGER Summary of Hazards			
<p>EXTREMELY FLAMMABLE! OSHA/NFPA CLASS-IS FLAMMABLE LIQUID. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINERS CLOSED. POISON-CLASS B. HARMFUL OR FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN! INGESTION OF ONE TO FOUR OUNCES CAN CAUSE IRREVERSIBLE INJURY TO THE NERVOUS SYSTEM, BLINDNESS, OR DEATH. IT CANNOT BE MADE NON-POISONOUS. CAUSES EYE AND RESPIRATORY SYSTEM IRRITATION AND MAY CAUSE SKIN IRRITATION! AVOID LIQUID, MIST, OR VAPOR CONTACT. WEAR PROPER PROTECTIVE CLOTHING. WASH THOROUGHLY AFTER HANDLING. (SEE SECTION V AND SUPPLEMENT.) MAY BE HARMFUL IF INHALED! MAY CAUSE INTERNAL ORGAN DAMAGE! AVOID BREATHING VAPORS. USE ONLY WITH ADEQUATE VENTILATION. VAPOR INHALATION OR LIQUID PENETRATION OF THE SKIN CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. PROLONGED OR REPEATED HIGH INHALATION EXPOSURE MAY CAUSE OPTIC NERVE DAMAGE, PULMONARY AND/OR CEREBRAL EDEMA, LIVER AND/OR KIDNEY DAMAGE, COMA, RESPIRATORY FAILURE, AND EVEN DEATH.</p>			
III. Fire and Explosion			
Flash Point (Method) AP 53°F (D-86) SEE "FIRE & EXPLOSION HAZARDS"	Autoignition Temperature (Method) AP 725°F (E-689) BASED UPON NFPA "METHANOL"		Flammable Limits (% Vol. in Air) At Normal Atmospheric Temperature and Pressure Lower AP 6.0 Upper AP 36.5 BASED UPON NFPA "METHANOL"
Fire and Explosion Hazards	<p>EXTREMELY FLAMMABLE! THIS MATERIAL RELEASES VAPORS AT OR BELOW AMBIENT TEMPERATURES. WHEN MIXED WITH AIR IN CERTAIN PROPORTIONS AND EXPOSED TO AN IGNITION SOURCE, THESE VAPORS CAN BURN IN THE OPEN OR EXPLODE IN CONFINED SPACES. BEING HEAVIER THAN AIR, FLAMMABLE VAPORS MAY TRAVEL LONG DISTANCES ALONG THE GROUND BEFORE REACHING A POINT OF IGNITION AND FLASHING BACK.</p>		
Extinguishing Media	<p>ALCOHOL TYPE FOAM DRY CHEMICAL CO2 WATER FOG AND SPRAY CAN COOL THE FIRE, BUT PROBABLY WILL NOT ACHIEVE EXTINGUISHMENT.</p>		<p>HAZARD RATING: 4 - Extreme 3 - High 2 - Moderate 1 - Slight 0 - Insignificant</p> <p>Health: 3, 3, 0 Special</p> <p>* Chronic Health Hazard - See Section IV.</p>
Special Firefighting Procedures	<p>MIXTURES WITH WATER CONTAINING MORE THAN 21 VOL.% METHANOL ARE FLAMMABLE. DIKE UP FIRE CONTROL WATER FOR LATER DISPOSAL; DO NOT SCATTER THE MATERIAL. METHANOL FIRES MAY NOT BE VISIBLE TO THE NAKED EYE. DO NOT ENTER ANY CONFINED/ENCLOSED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS. WATER COOL FLAME-EXPOSED CONTAINERS FROM THE SIDE UNTIL WELL AFTER THE FIRE IS OUT. EVACUATE IMMEDIATELY IF THERE IS A RISING SOUND OF VENTING SAFETY DEVICES OR TANK DISCOLORIZATION.</p>		

HER 05454

IV.

Health Hazards

SEE SUPPLEMENT
BEGINNING ON PAGE 6

Summary of Acute Hazards	LIQUID, MIST OR VAPORS CAN CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION AND CNS DEPRESSION. ASPIRATION INTO THE LUNGS WILL CAUSE CHEMICAL PNEUMONIA		
ROUTE OF EXPOSURE		SIGNS AND SYMPTOMS	Primary Route(s)
Inhalation	SHORT-TERM EXPOSURE TO HIGH LEVELS OF VAPOR MAY CAUSE CNS DEPRESSION. SYMPTOMS INCLUDE NAUSEA, DROWSINESS, VERTIGO, FATIGUE, CONVULSIONS. UNCONSCIOUSNESS AND DEATH, DEPENDING ON EXPOSURE DURATION. (SEE "SUMMARY" BELOW.)		<input checked="" type="checkbox"/>
Eye Contact	EYE IRRITATION MAY OCCUR UPON SHORT-TERM EXPOSURE, INCLUDING A BURNING SENSATION, TEARING, REDNESS, OR SWELLING. UPON DIRECT CONTACT WITH LIQUID, CONJUNCTIVITIS AND CORNEAL BURNS MAY OCCUR.		<input checked="" type="checkbox"/>
Skin Absorption	UPON PROLONGED OR REPEATED CONTACT, ABSORPTION THROUGH THE SKIN MAY OCCUR AND PRODUCE TOXIC EFFECTS SIMILAR TO THOSE RESULTING FROM INHALATION EXPOSURE. (SEE "SUMMARY OF CHRONIC HAZARDS" BOX BELOW.)		<input checked="" type="checkbox"/>
Skin Irritation	SKIN IRRITATION OR MORE SERIOUS DISORDERS MAY OCCUR UPON PROLONGED AND REPEATED CONTACT DUE TO SKIN DEFATTING.		<input checked="" type="checkbox"/>
Ingestion	SWALLOWING ONLY 1 TO 4 OUNCES HAS BEEN REPORTED TO CAUSE DEATH OR SERIOUS IRREVERSIBLE INJURY SUCH AS BLINDNESS. METHANOL METABOLISM CAUSES SYSTEMIC ACIDOSIS RESULTING IN DAMAGE TO THE OPTIC NERVE. SYMPTOMS MAY BE DELAYED.		<input checked="" type="checkbox"/>
Summary of Chronic Hazards and Special Health Effects	PERSONNEL EXPOSED TO HIGH CONCENTRATIONS (365-3080 PPM) OF METHANOL VAPORS IN DIRECT-PROCESS SPIRIT DUPLICATING OPERATIONS REPORTED SIGNIFICANTLY MORE COMPLAINTS OF HEADACHE, BLURRED VISION, DIZZINESS, AND NAUSEA THAN DID THE UNEXPOSED COMPARISON GROUP. METHANOL IS SLOWLY ELIMINATED FROM THE BODY. HENCE REPEATED EXPOSURES MAY RESULT IN TOXIC LEVELS IN BLOOD AND TISSUES. PERSONNEL WITH PRE-EXISTING CNS DISEASE, SKIN DISORDERS, IMPAIRED LIVER OR KIDNEY FUNCTION, OR CHRONIC RESPIRATORY DISEASES SHOULD AVOID EXPOSURE.		

V.

Protective Equipment and Other Control Measures

Respiratory	DO NOT USE AIR-PURIFYING RESPIRATOR. ONLY NIOSH/MSHA APPROVED SUPPLIED AIR OR SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE ARE SATISFACTORY, IF EXPOSURE CAN EXCEED THE PEL/TLV.
Eye	EYE PROTECTION SUCH AS CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD MUST BE WORN WHEN POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING LIQUID, AIRBORNE PARTICLES, OR VAPOR. CONTACT LENSES SHOULD NOT BE WORN.
Skin	WHEN SKIN CONTACT IS POSSIBLE, PROTECTIVE CLOTHING INCLUDING GLOVES, APRON, SLEEVES, BOOTS, HEAD AND FACE PROTECTION SHOULD BE WORN. THIS EQUIPMENT MUST BE CLEANED THOROUGHLY AFTER EACH USE.
Engineering Controls	GENERAL ROOM OR LOCAL EXHAUST VENTILATION IS USUALLY REQUIRED TO MEET EXPOSURE STANDARD(S).
Other Hygienic and Work Practices	EMERGENCY EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE. USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING/WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

VI.

Occupational Exposure Limits

Substance	Source	Date	Type	Value/Units	Time
METHYL ALCOHOL - SKIN	OSHA	1988	PEL	200 PPM	8 HRS
METHYL ALCOHOL - SKIN (PROPOSED)	OSHA	1988	STEL	250 PPM	15 MIN
METHYL ALCOHOL - SKIN	ACGIH	1988	TLV	200 PPM	8 HRS
			STEL	250 PPM	15 MIN

HER 05455

METHANOL

MSDS No.
HCRO01423
Rev. Date
02/03/89

VII

Emergency and First Aid

Inhalation	IMMEDIATELY REMOVE FROM CONTAMINATED AREA TO FRESH AIR. KEEP INDIVIDUAL QUIET. FOR RESPIRATORY DISTRESS, GIVE AIR OR OXYGEN AND/OR ADMINISTER CARDIOPULMONARY RESUSCITATION (CPR). OBTAIN EMERGENCY MEDICAL ATTENTION.
Eye Contact	IMMEDIATELY FLUSH EYES WITH PLENTY OF CLEAN LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION.
Skin Contact	IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH AFFECTED SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE; WASH OR DISCARD CONTAMINATED LEATHER SHOES/GLOVES.
Ingestion	SEE "EMERGENCY MEDICAL TREATMENT PROCEDURES" AND THE MSDS SUPPLEMENT PAGE.
Emergency Medical Treatment Procedures	METHANOL INGESTION IS LIFE-THREATENING. IF SWALLOWED AND CONSCIOUS, DRINK TWO GLASSES OF WATER AND INDUCE VOMITING BY FINGER DOWN THE THROAT OR WITH SYRUP OF IPECAC. FOLLOW EMESIS WITH TWO TEASPOONS OF BAKING SODA IN WATER. SYMPTOM ONSET MAY BE DELAYED. ETHANOL THERAPY MAY BE INDICATED. SEE THE SUPPLEMENT PAGE FOR ADDITIONAL INFORMATION.

VIII

Spill and Disposal

Precautions if Material is Spilled or Released	CONTAIN SPILL. REMOVE ALL IGNITION SOURCES AND SAFELY STOP FLOW OF SPILL. EVACUATE ALL NON-ESSENTIAL PERSONNEL. IN URBAN AREAS, CLEAN UP ASAP. IN NATURAL ENVIRONMENTS, SEEK ADVICE FROM ECOLOGISTS. USE PROPER PROTECTIVE EQUIPMENT. BLANKET WITH FOAM OR USE WATER FOG TO DISPERSE VAPORS. PADS OR ABSORBANT MATERIALS CAN BE USED. THIS MATERIAL WILL FLOAT ON WATER AND RUN-OFF MAY CREATE AN EXPLOSION OR FIRE HAZARD. AVOID ENTRY INTO WATER BODIES. COMPLY WITH ALL LAWS. SPILLS MAY NEED TO BE REPORTED TO THE NATIONAL RESPONSE CENTER (800/424-8802). THE SPILLED MATERIAL AND ANY WATER OR SOIL WHICH IT HAS CONTACTED MAY BE HAZARDOUS TO HUMAN AND OTHER LIFE.
Waste Disposal Methods	FOR LARGE SPILLS, MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. FREE LIQUID MAY BE COLLECTED USING EXPLOSION-PROOF DIESEL OR VACUUM PUMPS. FOR CLEANUP OR SMALL SPILLS, ABSORB MATERIAL WITH COMBUSTIBLE PADS OR SOLIDIFICATION ADDITIVE. TRANSPORT WASTE MATERIALS IN A D.O.T.-APPROVED CONTAINER. DISPOSE OF THEM IN A LICENSED FACILITY WHICH IS PERMITTED TO HANDLE RCRA HAZARDOUS LIQUID WASTE. INCINERATION IS THE RECOMMENDED DISPOSAL METHOD. FOR SPILLS ON WATER, COLLECT FLOATING MATERIAL WITH A VACUUM SYSTEM OR ABSORBANT PADS AND HANDLE AS AN EPA "IGNITABLE HAZARDOUS WASTE". BIODEGRADATION MAY BE USED; HOWEVER, GENERATION OF TOXIC VAPORS SHOULD BE AVOIDED.

IX

Components

(This may not be a complete list of components)

Component Name	CAS No.	Carcinogen#	Composition amount (Wt.) (See Qualification on Page 4)
METHANOL (METHYL ALCOHOL)	67-56-1	N/AP	98 PERCENT

HER 05456

#Listed By: 1 = NTP, 2 = IARC, 3 = OSHA, 4 = Other

Compositions given are typical values, not specifications.

X. Physical and Chemical Data			
Boiling Point (At 760.0 mm Hg) AP 147° F	Viscosity Units, Temp. (Method) AP 1 CPS AT 30° C (D-445)		Dry Point N/AP
Freezing Point AP -144° F	Vapor Pressure (MM HG AT 68° F) AP 96		Volatile Characteristics APPRECIABLE
Specific Gravity (H ₂ O = 1 at 39.2° F) AP 0.79	Vapor Sp. Gr. (Air = 1.0 at 60° - 90° F) AP 1.1	Solubility in Water COMPLETE	pH N/AP
Hazardous Polymerization NOT EXPECTED TO OCCUR	Other Chemical Reactivity N/P		Stability STABLE
Other Physical and Chemical Properties MOLECULAR WEIGHT = 32.04; EVAPORATION RATE = 4.6 (IF N-BUTYL ACETATE = 1.0).			
Appearance and Odor CLEAR, COLORLESS LIQUID; FAINT, CHARACTERISTIC ALCOHOL ODOR; ODOR THRESHOLD = 55 PPM IN AIR; ODOR IS NOT A GOOD INDICATOR OF EXPOSURE LEVEL.			
Conditions to Avoid HEAT, SPARKS, OPEN FLAME, AND OXIDIZING CONDITIONS.			
Materials to Avoid STRONG OXIDIZING AGENTS; ALUMINUM, ZINC (GALVANIZED), OR ANY OTHER REACTIVE METAL WHICH WILL DISPLACE HYDROGEN; CERTAIN FORMS OF PLASTICS; AND RUBBER OR RUBBER-BASED COATINGS.			
Hazardous Decomposition Products INCOMPLETE COMBUSTION WILL GENERATE HIGHLY POISONOUS CARBON MONOXIDE AND PERHAPS OTHER TOXIC VAPORS SUCH AS FORMALDEHYDE.			
XI. Additional Precautions			
Handling, Storage and Decontamination Procedures	<p>STORE ONLY IN TIGHTLY CLOSED/ PROPERLY VENTED CONTAINERS AWAY FROM HEAT/ SPARKS/OPEN FLAMES/STRONG OXIDIZING AGENTS. USE ONLY NON-SPARKING TOOLS. BLANKET STORAGE WITH DRY INERT GAS. STORE DRUMS WITH BUNG IN UP POSITION. CAREFULLY VENT INTERNAL PRESSURE BEFORE REMOVING CLOSURE. GROUND CONTAINERS BEFORE TRANSFER. WILL ABSORB ATMOSPHERIC MOISTURE. ELECTRICAL EQUIPMENT SHOULD CONFORM TO NATIONAL ELECTRIC CODE. CARBON STEEL IS SATISFACTORY MATERIAL OF CONSTRUCTION. DO NOT STORE IN ALUMINUM OR ZINC (GALVANIZED). HANDLE "EMPTY" DRUMS WITH CARE/VAPOR RESIDUE MAY BE FLAMMABLE/POISONOUS.</p> <p>ISOLATE, VENT, DRAIN, WASH AND PURGE SYSTEMS OR EQUIPMENT BEFORE ANY REPAIR OR MAINTENANCE. REMOVE ALL IGNITION SOURCES. CHECK ATMOSPHERE FOR OXYGEN DEFICIENCIES AND EXPLOSIVITY. USE ADEQUATE PERSONAL PROTECTIVE EQUIPMENT AND OBSERVE PRECAUTIONS PERTAINING TO CONFINED SPACE ENTRY.</p>		
General Comments	<p>SOME OF THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE MIXTURE ITSELF.</p> <p>--- Note --- Qualifications: EQ = Equal AP = Approximately N/P = No Applicable Information Found LT = Less Than UK = Unknown N/AP = Not Applicable GT = Greater Than TR = Trace N/DA = No Data Available</p> <p>Disclaimer of Liability The information in this MSDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.</p>		

METHANOL

MSDS No.
HCR001423
Rev. Date
02/03/89

XII. Label Information

Manufacturer: LYONDELL PETROCHEMICAL COMPANY
1221 MCKINNEY AVENUE, SUITE 1600
P.O. BOX 3646
HOUSTON, TEXAS 77253-3646

Telephone Numbers
EMERGENCY
800/424-9300 CHEMTREC
800/245-4532 HOT LINE
CUSTOMER SERVICE
713/652-7200 INFO ONLY

Use Statement: FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN

Signal Word: DANGER

Physical Hazards:

EXTREMELY FLAMMABLE

CORROSIVE TO SOME METALS

Health Hazards:

HIGH INGESTION HAZARD
INHALATION HAZARD
MAY DAMAGE THE OPTIC NERVE
MAY CAUSE LONG-TERM ADVERSE HEALTH EFFECTS
MAY CAUSE KIDNEY DAMAGE

HIGH SKIN CONTACT HAZARD
SEVERE EYE IRRITANT
SKIN IRRITANT - DEFATTING ACTION
MUCOUS MEMBRANE IRRITANT
PROLONGED EXPOSURE MAY DAMAGE THE LUNGS & LIVER

Precautionary Measures:

DO NOT HANDLE NEAR HEAT, SPARKS, OR OPEN FLAME.
SPILL/LEAK CAN CAUSE FIRE/EXPLOSION.
KEEP CONTAINER CLOSED WHEN NOT IN USE.
DO NOT CONTACT WITH OXIDIZABLE MATERIALS.
USE ONLY WITH ADEQUATE VENTILATION/PERSONAL PROTECTION.
AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.
AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.
WASH THOROUGHLY AFTER HANDLING.
PREVENT CONTACT WITH FOOD, CHEWING, OR SMOKING MATERIALS.
DO NOT TASTE/SWALLOW.

DOT Information:

UN/NA ID Number- UN 1230
Hazard Class- FLAMMABLE LIQUID
Proper Shipping- METHYL ALCOHOL

Instructions:

ALCOHOL TYPE FOAM
DRY CHEMICAL
CO2

HALON
FOAM
WATERSPRAY

HER 05458

First Aid -Inhalation

IMMEDIATELY REMOVE FROM CONTAMINATED AREA TO FRESH AIR. KEEP INDIVIDUAL QUIET. FOR RESPIRATORY DISTRESS, GIVE AIR OR OXYGEN AND/OR ADMINISTER CARDIOPULMONARY RESUSCITATION (CPR). OBTAIN EMERGENCY MEDICAL ATTENTION. IMMEDIATELY FLUSH EYES WITH PLENTY OF CLEAN LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION.

-Eye Contact

-Skin Contact

IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH AFFECTED SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE; WASH OR DISCARD CONTAMINATED LEATHER SHOES/GLOVES. SEE "EMERGENCY MEDICAL TREATMENT PROCEDURES" AND THE MSDS SUPPLEMENT PAGE.

-Ingestion

In case of spill,

CONTAIN SPILL. REMOVE ALL IGNITION SOURCES AND SAFELY STOP FLOW OF SPILL. EVACUATE ALL NON-ESSENTIAL PERSONNEL. IN URBAN AREAS, CLEAN UP ASAP. IN NATURAL ENVIRONMENTS, SEEK ADVICE FROM ECOLOGISTS. USE PROPER PROTECTIVE EQUIPMENT. BLANKET WITH FOAM OR USE WATER FOG TO DISPERSE VAPORS. PADS OR ABSORBANT MATERIALS CAN BE USED. THIS MATERIAL WILL FLOAT ON WATER AND RUN-OFF MAY CREATE AN EXPLOSION OR FIRE HAZARD. AVOID ENTRY INTO WATER BODIES. COMPLY WITH ALL LAWS. SPILLS MAY NEED TO BE REPORTED TO THE NATIONAL RESPONSE CENTER (800/424-8802). THE SPILLED MATERIAL AND ANY WATER OR SOIL WHICH IT HAS CONTACTED MAY BE HAZARDOUS TO HUMAN AND OTHER LIFE.

Protective Equipment:

-Respiratory

DO NOT USE AIR-PURIFYING RESPIRATOR. ONLY NIOSH/MSHA APPROVED SUPPLIED AIR OR SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE. EYE PROTECTION SUCH AS CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD MUST BE WORN WHEN POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING WHEN SKIN CONTACT IS POSSIBLE. PROTECTIVE CLOTHING INCLUDING GLOVES, APRON, SLEEVES, BOOTS, HEAD AND FACE PROTECTION SHOULD BE WORN.

-Eye

-Skin

METHANOL

MSDS No.
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XIII.

Supplement

INGESTION HAZARD AND MEDICAL TREATMENT:

INGESTION OF THIS PRODUCT, EVEN IN SMALL AMOUNTS, CAN CAUSE BLINDNESS AND DEATH. ONSET OF SYMPTOMS MAY BE DELAYED FOR 18-24 HOURS. TREATMENT PRIOR TO ONSET OF OBVIOUS SYMPTOMS MAY BE LIFE-SAVING. METHANOL IS RAPIDLY ABSORBED AND EMESIS SHOULD BE INITIATED EARLY TO BE EFFECTIVE. WITHIN 30 MINUTES OF INGESTION, IF POSSIBLE, ADMINISTER SYRUP OF IPECAC. AFTER THE DOSE IS GIVEN, ENCOURAGE PATIENT TO TAKE 6-8 OUNCES OF CLEAR NON-CARBONATED FLUID. DOSE MAY BE REPEATED ONCE IF EMESIS DOES NOT OCCUR WITHIN 20-30 MINUTES. ADMINISTRATION OF AN AQUEOUS SLURRY OF ACTIVATED CHARCOAL WITH MAGNESIUM CITRATE OR SORBITOL AS A CATHARTIC HAS BEEN REPORTED HELPFUL.

ETHANOL INHIBITS THE FORMATION OF TOXIC METABOLITES. IF ETHANOL THERAPY IS INDICATED, ADMINISTER A LOADING DOSE OF 7.6-10 ML/KG OF BODY WEIGHT OF 10% ETOH IN D5W OVER 30-60 MINUTES. MAINTENANCE DOSE IS 1.4 ML/KG/HR OF 10% ETOH, TO ACHIEVE A 100-130 MG/DL BLOOD ETOH LEVEL DURING ETHANOL THERAPY. (IF CHARCOAL IS ADMINISTERED, ETHANOL SHOULD BE ADMINISTERED INTRAVENOUSLY AND NOT ORALLY.)

MAINTAIN CONTACT WITH POISON CONTROL CENTER DURING ALL ASPECTS OF DIAGNOSIS AND TREATMENT.

REGULATORY STATUS INFORMATION:

TOXIC SUBSTANCE CONTROL ACT (TSCA) - (40 CFR 700-799)
METHANOL IS LISTED ON THE TSCA INVENTORY.

CLEAN AIR ACT SECTION 111 - (40 CFR 80.489)
THE EPA CLASSIFIES METHANOL AS A "VOLATILE ORGANIC CHEMICAL".

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) - (40 CFR 302)
RELEASED OR SPILLED QUANTITIES OF 5000 POUNDS OR MORE OF METHANOL (METHYL ALCOHOL) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800/424-8802).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) - (40 CFR 260-280)
THE EPA CLASSIFIES METHANOL AS AN "IGNITABLE WASTE". THE HAZARDOUS WASTE NUMBER FOR METHANOL IS U154.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III - (40 CFR 355 AND 370)
UNDER THE PROVISIONS OF SECTION 311/312, METHANOL IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: IMMEDIATE HEALTH, DELAYED HEALTH, AND FIRE.
THE EPA CLASSIFIES METHANOL AS A "TOXIC CHEMICAL" THAT IS REPORTABLE UNDER SECTION 313.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986--PROPOSITION 65
METHANOL IS NOT REGULATED BY THE STATE OF CALIFORNIA HEALTH AND WELFARE AGENCY.

HER 05459

HERCULES OFFSHORE CO.

MARINE REPAIR

MARINE OPERATIONS FACILITY

INVOICE NO. _____

ORDER No. 4580

CUSTOMER P.O. _____

DATE	ORDER WRITTEN	STA
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>		
NAME <u>DYE - 110</u>		
FOREMAN <u>C. DURATE</u>		
LAST PRODUCT <u>METHANOL</u>		
GAS FREEING YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
ON WAYS _____ DATE: _____		
ON WAYS _____ DATE: _____		

CUSTOMER	NAME	<u>DIVIE CARRIER</u>
	BILLING ADDRESS	
	CITY AND STATE	
	PHONE NUMBER	
WORK AUTHORIZED BY		OFF AUTHORIZED BY
<u>M. GREEN</u>		<u>M. GREEN</u>
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET		
OUTSIDE SERVICES IF YES, LIST <input type="checkbox"/> YES <input type="checkbox"/> NO		

ITEM NUMBERS

1	<u>STRIP AND BLOW DRY</u>
2	
3	
4	
5	
6	
7	
8	
9	
10	

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

HER 05460

Signed: _____ Date: _____

HERCULES OFFSHORE CO.

MARINE REPAIR

MARINE OPERATIONS FACILITY

INVOICE NO. _____

ORDER No. H580

CUSTOMER P.O. _____

DATE	ORDER WRITTEN	ETA
	3-6-95	
	ARRIVAL	
	3-6-95 4:30 PM	
	COMPLETION DATE	
	DEPARTURE DATE	
	M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>	
	NAME <u>DYE-1110</u>	
	LOA	WIDTH
	FOREMAN	
	<u>C. DURATE</u>	
	LAST PRODUCT	
	<u>METHANOL</u>	
	GAS FREEING YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
	HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
	ON WAYS	DATE: _____
	ON WAYS	DATE: _____

CUSTOMER	NAME	<u>DIXIE CARRIER</u>
	BILLING ADDRESS	
	CITY AND STATE	
	PHONE NUMBER	
	WORK AUTHORIZED BY	CITY AUTHORIZED BY
	<u>M. GREEN</u>	<u>M. GREEN</u>
	STOCK MATERIAL	<input type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET	
	OUTSIDE SERVICES	<input type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, LIST	

ITEM NUMBERS

1 STRIP AND BLOW DRY

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 05461

MARINE SERVICES CORPORATION

15. 1994-1995

P.M. NO.	4580-90056
VENDOR	Kelly Purple Cow
TERMS	30
F.O.B.	yard
VIA	
SHIP DATE	3/7/95

RECEIVED BY:	APPROVED BY	TOTALS	HER 05
DATE RECEIVED	APPROVED BY	BUYER / DATE	

HER 05462

[illegible]

TOTAL MATERIALS : 37.50

LABOR HOURS

[illegible]

LABOR HOURS con't

[illegible]

HER 05464